# 4.2 Web-Based Configuration

After making all the required connections, configure the travel router using the webbased configuration utility.

# How to Access the Configuration Utility

In Router mode, the travel router's IP address is automatically set as **192.168.10.1**, and the device name is **tew-654tr**. To access the web-based configuration utility, do the following steps:

- Open a web-browser, on the address field, enter either of the following defaults: http://tew-654tr/ or http://192.168.10.1/.
- 2 Enter the default User Name and Password: admin.

If you cannot access the configuration utility, disable the Internet security software on the computer. The firewall may block access to the configuration page. Check the software firewall

documentation for help.

🗐 TR	REND	iet TEV	N-654TR	- Wir	ldows	Internet Ex	plorer
File	Edit	View	Favorites	Тоо	ls He	lp	
G	Back	- 6	- 💌	2	6	🔎 Search	State Part of the second secon
Addre	ss 🙋	http://i	tew-654tr/			💌 🔁 (	Go Li

			Wireless N Travel Router TEW-654TR
Login			
	User Name :	admin	
	Password:	•••••	
		Log In	
			Populate © 2000 TDENDoct All Diabto Decomod

After login, the **Status > Device** Info page is displayed.

To access a page, click the buttons on the right. To logout, click **Logout**.



#### Note:

Note:

For novice users, it is recommended to use the Setup Wizard to configure the travel router.

# 4.2.1 Wizard

Click the **Wizard** button to configure the travel router using the setup wizard.

1 Click **Next** to continue.

2 Create a new **Password**, then click **Next** to continue.

Welessee	
weicome	
Welcome to Wireless Security Setup Wizard	
This wizard will guide you through a step-by-step process to setup your wireless network and make it secure.	
Step 1. Set your new password     Step 2. Choose your time zone     Step 3. Set LAN connection and DHCP Server     Step 4. Set internet connection     Step 5. Set wireless LAN connection     Step 6. Restart	
Next Cancel	

Step 1. Set your new password			
You may change the <b>admin</b> account password by entering in a new password. Click <b>Next</b> to continue.			
Password :	••••		
Verify Password :	••••		
Back Next Cancel			

3 Choose the time zone from the list. Click **Next** to continue.

Step 2. Choose your time zone		
(GMT+08:00) Taipei 💌		
Back Next Cancel		

4 Set the LAN connection and DHCP Server. Click Next to continue.

Step 3. Set LAN co	Step 3. Set LAN connection and DHCP Server			
LAN IP Address :	192.168.10.1			
LAN Subnet Mask :	255.255.255.0			
DHCP Server :				
Range Start :	192.168.10.101			
Range End :	192.168.10.199			
Back Next Cancel				

5 Select the type of Internet connection you use, then click **Next** to continue.

Step 4. Set internet connection				
<ul> <li>Obtain IP Automatically (DHCP client)</li> </ul>				
O Fixed IP				
O PPPoE				
O PPTP				
O L2TP				
Back Next Cancel				

#### Note:

The Passphrase must be 8-63 ASCII characters or 64 hexadecimal characters.

# If you selected **Obtain IP Automatically** (DHCP Client)...

Enter the Host Name (optional).

You may need to enter the **MAC Address** of the computer that was last connected to a modem. To do this, click **Clone MAC Address**.

Click Next to continue.

Skip to step 6.

If you selected Fixed IP...

Enter the information provided by your ISP: **IP Address**, **Subnet Mask**, **Gateway**, **Primary DNS**, and **Secondary DNS** (optional).

Click Next to continue.

Skip to step 6.

If your ISP require you address, please en the MAC address of continue.	Duto enter a specific host name or specific MAC ter it in. The Clone MAC Address button is used to copy your Ethernet adapter to the Router. Click Next to
Host Name :	
Use Unicasting :	
MAC Address :	00 - 00 - 00 - 00 - 00 - 00 - 00 - 00
	Clone MAC Address
	Back Next Cancel

Step 4. Set Fixed I Enter in the static IP inform continue.	P Address	y your ISP. Click <b>Next</b> to
IP Address :	0.0.0.0	
Subnet Mask :	255.255.255.0	
Gateway :	0.0.0.0	
Primary DNS :	0.0.0.0	
Secondary DNS :	0.0.0.0	
Back Next Cancel		

If you selected **PPPoE**...

Select either Dynamic IP or Static IP.

If you selected **Dynamic IP**, enter the **User Name** and **Password**.

If you selected **Static IP**, enter the **IP Address**, **User Name**, and **Password** provided by your ISP.

Click **Next** to continue.

Skip to step 6.

If you selected PPTP...

Select either Dynamic IP or Static IP.

If you selected **Dynamic IP**, enter the **Server IP**, **PPTP Account**, and **PPTP Password** (optional).

If you selected **Static IP**, enter the **IP Address**, **Subnet Mask**, **Gateway**, **Server IP**, **PPTP Account**, and **PPTP Password** (optional) provided by your ISP.

Click Next to continue.

Skip to step 6.

S	Step 4. Set PPPoE			
	The service name is optional but may be required by your ISP. Click <b>Next</b> to continue.			
		💿 Dynamic IP 🔘 Static IP		
	IP Address :	0.0.0.0		
	User Name :		]	
	Password :		]	
	Verify Password :		]	
	Service Name :		(Optional)	
		Back Next Cancel		

Step 4. Set PPTP Client				
Opynamic IP     Static IP				
IP Address :	0.0.0.0			
Subnet Mask :	255.255.255.0			
Gateway :	0.0.0.0			
Server IP :				
PPTP Account :				
PPTP Password :				
Verify Password :				
	Back Next Cancel			

If you selected L2TP...

Select either Dynamic IP or Static IP.

If you selected **Dynamic IP**, enter the **Server IP**, **L2TP Account**, and **L2TP Password** (optional).

If you selected **Static IP**, enter the **IP Address**, **Subnet Mask**, **Gateway**, **Server IP**, **L2TP Account**, and **L2TP Password** (optional) provided by your ISP.

Click Next to continue.

Skip to step 6.

Step 4. Set L2TP Client		
Please set you L2TP Client data. Click Next to continue.		
	⊙ Dynamic IP 🔿 Static IP	
IP Address :	0.0.0.0	
Subnet Mask :	255.255.255.0	
Gateway :	0.0.0.0	
Server IP :		
L2TP Account :		
L2TP Password :		
Verify Password :		
Back Next Cancel		

5 Check the Wireless Enable box to enable wireless function. Create a new Wireless Network Name and select the Channel (6 by default).

Click Next to continue.

6 Click **Save** to save the settings and reboot the device.

Your wireless network nee wireless clients. Click Nex	IS LAN connection
Wireless Enable :	
Wireless Network Name ( SSID ) :	TRENDnet654
Channel :	6 🗸
[	Back Next Cancel

Step 6. Setup Completed	
Click "Seve" butten to gove the actilized and restart Mindage Reuter	
Back Save Cancel	

# 4.2.2 Setup

The Setup menu allows you to configure basic router settings. Click the **Setup** button then the submenu to view page.

# **Wireless Network Settings**

# Wireless Network Name

The name of your wireless network, also called Service Set Identifier (SSID).

Enter up to 32 characters.

# Enable Auto Channel Scan

Auto channel scan selects the channel with the least amount of interference. Check to enable auto channel scan.

# Wireless Channel

Manually select the channel

	DNET	Wireless N Travel Router TEW-654TR
Wizard	Wireless Network	Settings
Setup		
• <u>Wireless</u>	Wireless Network Name :	TRENDnet654 (Also called the SSID)
• LAN • WAN	Enable Auto Channel Scan :	
• WPS	Wireless Channel :	6 V (Domain:United Status)
Dynamic DNS	802.11 Mode :	2.4Ghz 802.11b/g/n mixed mode 🖌
Advanced	Channel Width :	20 MHz 💌
System	Enable Hidden Wireless :	(Also called Disable SSID Broadcast)
Charles	WMM Enable :	🗹 (force enabled in 11n mode)
Status	Wireless Security Mode :	Disable Wireless Security (not recommended)
Logout		Cancel Apply
		Description & DODA TREADware All Richter Description

from the list. By default, the channel is set to 6. If **Enable Auto Channel Scan** is checked, this box is grayed out.

# 802.11 Mode

Limit the type of wireless clients to allow connection with. Select any of the following modes if your clients are:

- 2.4Ghz 802.11b/g mixed mode: a mix of 802.11b and 11g wireless devices.
- 2.4Ghz 802.11b/g/n mixed mode: a mix of 802.11b, 11g, 11n wireless devices.
- 2.4Ghz 802.11n only mode: all 802.11n wireless devices.

# **Channel Width**

Select the appropriate channel width:

- 20 MHz (Default): Select if your wireless clients are not 802.11n.
- Auto 20/40 MHz: Select if your wireless clients are a mix of 802.11b, 11g, 11n wireless clients. If you are not sure which wireless clients you are using, select Auto.

# **Enable Hidden Wireless**

Check to hide the SSID of your wireless network to be broadcasted when wireless clients scan for wireless networks. To display the router's SSID, keep the box unchecked (default).

# WMM Enable

Wi-Fi Multimedia (WMM) improves the quality of video and voice applications transmitted over a wireless network. This function is commonly used with multimedia applications such as a game console. Check the box to enable WMM.

# **Wireless Security Mode**

Select the security level for your wireless network. Select the wireless security mode from the list:

- **Disable Wireless Security:** (Default) Select if you do not want to use any wireless security.
- Enable WEP Wireless Security (basic)
- Enable WPA Wireless Security (enhanced)
- Enable WPA-2 Wireless Security (enhanced)
- Enable WPA-Auto Wireless Security (enhanced): Select if you are unsure which WPA wireless security to use.

The required settings vary depending on the selected mode.

# WEP

WEP (Wired Equivalent Privacy) is the basic encryption method. With WEP encryption, all wireless clients must enter the same key to connect to the access point.

# Authentication

Select the type of authentication:

- Open system: Allows public access to the travel router via wireless communications.
- Shared Key: Requires users to enter the same WEP key to exchange data with other wireless devices.

Authentication :	Open System 💌
Key Length :	64Bit 💌
Key Format :	HEX 💌
Default WEP Key :	WEP Key 1 💌
WEP Key 1:	2994153900
WEP Key 2 :	
WEP Key 3 :	
WEP Key 4 :	

• Auto: Select Auto if you are unsure which authentication suits best for your wireless clients.

# **Key Length**

Select the key length or the level of encryption:

- 64Bit: Select to enter 10 hexadecimal characters with any combination of 0-9 or A-F
- 128Bit: Select to enter 26 hexadecimal characters with any combination of 0-9 or A-F

# **Key Format**

Select the key format:

- **ASCII:** Select to enter ASCII characters.
- HEX: Select to enter hexadecimal characters.

# **Default WEP Key**

The travel router supports up to 4 sets of WEP keys. Select which WEP Key is used as the default key from the list.

# WEP KEY 1-4

Manually enter a set of WEP key for each box. Select the default WEP key from the **Default WEP Key** list.

# WPA / WPA-2 / WPA-Auto

WPA (Wi-Fi Protected Access) uses high grade encryption and authentication which is designed to improve WEP encryption. WPA / WPA-2 / WPA-Auto uses a passphrase to authenticate wireless connections.

# **Cipher Type**

Select the encryption method:

- **TKIP:** Temporal Key Integrity Protocol.
- **AES:** Advanced Encryption Standard.

Cipher Type :	Auto 💌
PSK/EAP:	PSK 💌
Passphrase :	
Confirmed Passphrase :	

• Auto: Select Auto if you are unsure which method is suitable for your wireless clients.

# PSK/EAP

Select the authentication method:

- **PSK:** Select to use a passphrase for authentication.
  - **Passphrase**

Create a passphrase. The passphrase must be 64 hexadecimal or 8-63 ASCII characters.

# **Confirm Passphrase**

Re-enter passphrase.

• **EAP:** Select to use Extensible Authentication Protocol (EAP). This should only be used when a Radius server is connected to the travel router. You can have up to 2 Radius server settings.

IP

Enter the IP address of the Radius server.

# Port

Enter the port number of the Radius server. The default value is 1812.

# Shared Secret

Enter the secret key shared between the travel router and the Radius server.

Cipher Type :	Auto 🔽	
PSK/EAP:	EAP 🔽	
802.1X		
RADIUS Server 1:	IP	0.0.0.0
	Port	1812
	Shared Secret	
RADIUS Server 2:	IP	0.0.0.0
	Port	1812
	Shared Secret	

# Local Area Network (LAN) Settings

# **Device Name**

Create the device name. The default name is TEW-654TR.

# **IP Address**

Enter the IP address provided by your ISP.

# Subnet Mask

Enter the subnet mask provided by your ISP.

# Enable DHCP Server

Check the box to allow the travel router to automatically assign an IP address to each connected devices. This function is enabled by default.

Wizard LAN Setup • Wireless • LAN • WAN • WPS • Dynamic DNS Advanced DHCP Use th on you E Status DHCP	onnection Device Name : IP Address : Subnet Mask : Server Is section to configur r network.	TEW-654TR 192.168.10.1 255.255.255.0 e the built-in DHCP Serv	] ] er to assign IP addresse	is to the computers
Setup  • Wireless • LAN • Wall • Was • Was • Dynamic DNS  Advanced Use th on you Status Logout  DYNA	onnection Device Name : IP Address : Subnet Mask : Server Is section to configur r network.	TEW-654TR 192.168.10.1 255 255.255.0 ethe built-in DHCP Serv	] ] er to assign IP addresse	is to the computers
Wireless     Lan C     Vireless     Lan C     Vireless     Lan C     Vireless     Vireless	Device Name : Device Name : Subnet Mask : Server Is section to configur r network.	TEW-654TR 192.168.10.1 255.255.255.0 e the built-in DHCP Serv	] ] er to assign IP addresse	is to the computers
vali vali vali vali vali vali vali bysami bio Advanced DHCP Use th System Status DHCI Logout DHCP	IP Address : Subnet Mask : Server is section to configur r network.	192.168.10.1 255.255.255.0 e the built-in DHCP Serv	er to assign IP addresse	is to the computers
wps pmamic DNS DHCP Use th System Status Logout DHCP DHCP Use th Composition DHCC DHCP DHCP DHCP DHCP DHCP DHCP DHCP	Subnet Mask : Server is section to configur r network.	255.255.255.0	er to assign IP addresse	s to the computers
Advanced DHCP Use It System DHCP Status DHCC Logout DYNA	Server is section to configur r network.	e the built-in DHCP Serv	er to assign IP addresse	s to the computers
Status DHCI				
DYNA	nable DHCP Server : PIP Address Range :	192.168.10.101	to 192.168.10.199	
DYNA	DHCP Lease Time :	(addresses within the 1 Week 👻	e LAN subnet)	
DYNA	Domain Name :			
	MIC DHCP CLIENT I	LIST		
Host Most Most Most Most Most Most Most M	Name IP Address 8-en 192.168.10 196 192.168.10	MAC Address 101 00:1b:77:67:0 102 00:11:95:c8:1	Expired Time 2:95 Tue Jan 8 00: 1:d3 Tue Jan 8 00:	00:22 2008 00:22 2008

# **DHCP IP Address Range**

Enter the starting and ending range of IP addresses that can be assigned to clients on your network.

# **DHCP Lease Time**

Select the length of time to "lease" the dynamic IP address from the list. The default time is **1 Week**.

# **Domain Name**

Enter the domain name (optional).

# **Dynamic DHCP Client List window**

Displays the list of DHCP clients.

# Wide Area Network (WAN) Settings

# **Connection Type**

Select the type of Internet connection that you use from the list. The required fields may vary depending on the selected connection type.

# **Dynamic IP (DHCP)**

# **Host Name**

Enter the host name. This field is optional but may be required by some ISPs.

# **Use Unicasting**

If you have problems obtaining an IP address from your ISP. check this box to enable unicasting. Enabled by default.

# **Primary / Secondary DNS**

Enter the DNS server addresses provided by your ISP.

# MTU

Adjust the MTU (Maximum Transmission Unit) for optimal performance with your ISP. The default value is 1500.

#### **MAC Address**

Enter the MAC address of the computer that was last connected to a modem. To enter the MAC address of your current computer, click **Clone MAC Address**.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

# Static IP

# **IP Address**

Enter the IP address provided by your ISP.

# Subnet Mask

Enter the subnet mask provided by your ISP.

#### **Default Gateway**

Enter the gateway provided by your ISP.

# **Primary / Secondary DNS**

Enter the DNS server address provided by your ISP.

Connection Type		
Connection Type :	Static IP	
IP Address :	0.0.0.0	
Subnet Mask :	255.255.255.0	
Default Gateway :	0.0.0.0	
Primary DNS :	0.0.0.0	
Secondary DNS :	0.0.0.0	
MTU:	1500 ( bytes ) MTU default = 1500	
MAC Address:	00 - 11 - 95 - c8 - 11 - d3	
	Clone MAC Address	

Wireless N Travel Router TEW-654TR Wizard Connection Type Connection Type: Dynamic IP (DHCP) V Wirele Host Name • LAN Use Unicasting : Primary DNS: 0.0.0.0 Secondary DNS : 0.0.0.0 MTU: 1500 (bytes) MTU default = 1500 MAC Address: 00 . 11 . 95 . c8 . 11 . d3 Clone MAC Address Cancel 🗸 Apply

# MTU

Adjust the MTU (Maximum Transmission Unit) for optimal performance with your ISP. The default value is 1400.

# **MAC Address**

Enter the MAC address of the computer that was last connected to a modem. To enter the MAC address of your current computer, click **Clone MAC Address**.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

# PPPoE

Select PPPoE (Point to Point Protocol over Ethernet) if your ISP uses a PPPoE connection. Your ISP will provided you with a user name and password.

# **Address Mode**

Select **Dynamic IP** (default) or **Static IP** if your ISP provided you with the IP address, subnet mask, and DNS server addresses.

# **IP Address**

Enter the IP address provided by your ISP. This field is only available when **Access Mode** is set to **Static IP**.

# Service Name

Enter the ISP's service name (optional).

# **User Name**

Enter the user name provided by your ISP.

Password Enter the password.

# Primary / Secondary DNS

Enter the DNS server addresses provided by your ISP.

#### Auto-reconnect

Select reconnect option: Always-on, Connect-on Demand, and Manual .

#### Idle Time Out

Enter the time wherein the travel router will cut off the Internet connection after the specified period of inactivity (in minutes). This field is disabled when **Auto-reconnect** is **Always-on**.

# MTU

Adjust the MTU (Maximum Transmission Unit) for optimal performance with your ISP. The default value is 1492.

nnection Type	
Connection Type :	PPPoE V
Address Mode :	⊙ Dynamic IP 🔘 Static IP
IP Address:	0.0.0.0
Service Name :	
User Name :	
Password :	
Verify Password :	
Primary DNS :	0.0.0.0
Secondary DNS :	0.0.0.0
Auto-reconnect :	⊙ Always-on ○ Connect-on Demand ○ Manual
Idle Time Out :	5 Minutes
MTU:	1492 (bytes) MTU default = 1492
MAC Address :	00 - 11 - 95 - c8 - 11 - d3 Clone MAC Address

# **MAC Address**

Enter the MAC address of the computer that was last connected to a modem. To enter the MAC address of your current computer, click **Clone MAC Address**.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

#### PPTP

Select PPTP (Point to Point Tunneling Protocol) if your ISP uses a PPTP connection. Your ISP will provided you with a user name and password.

#### **Address Mode**

Select **Dynamic IP** (default) or **Static IP** if your ISP provided you with the IP address, subnet mask, and DNS server addresses.

# **IP Address**

Enter the IP address provided by your ISP. This field is available only when **Access Mode** is set to **Static IP**.

#### Subnet Mask

Enter the subnet mask provided by your ISP. This field is available only when **Access Mode** is set to **Static IP**.

#### Gateway

Enter the gateway provided by your ISP. This field is available only when **Access Mode** is set to **Static IP**.

#### **Server IP**

Enter the server IP address provided by your ISP.

#### **PPTP Account**

Enter the PPTP account name provided by your ISP.

#### **PPTP Password**

Enter the PPTP password provided by your ISP.

#### **Primary / Secondary DNS**

Enter the DNS server addresses provided by your ISP.

#### Auto-reconnect

Select reconnect option: Always-on, Connect-on Demand, and Manual .

#### **Idle Time Out**

Enter the time wherein the travel router will cut off the Internet connection after the specified period of inactivity (in minutes). This field is disabled when **Auto-reconnect** 

Connection Type	
Connection Type :	PPTP 💌
Address Mode :	📀 Dynamic IP 🔘 Static IP
IP Address:	0.0.0.0
Subnet Mask :	255.255.255.0
Gateway :	0.0.0.0
Server IP :	
PPTP Account :	
PPTP Password :	
PPTP Verify Password :	
Primary DNS :	0.0.0.0
Secondary DNS :	0.0.0.0
Auto-reconnect :	⊙ Always-on ○ Connect-on Demand ○ Manual
Idle Time Out :	5 Minutes
MTU :	1400 (bytes ) MTU default = 1400
MAC Address:	00 - 11 - 95 - c8 - 11 - d3
	Clone MAC Address

#### is Always-on.

#### MTU

Adjust the MTU (Maximum Transmission Unit) for optimal performance with your ISP. The default value is 1500.

#### **MAC Address**

Enter the MAC address of the computer that was last connected to a modem. To enter the MAC address of your current computer, click **Clone MAC Address**.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

#### L2TP

Select L2TP (Layer 2 Tunneling Protocol) if your ISP uses an L2TP connection. Your ISP will provided you with a user name and password.

#### **Address Mode**

Select **Dynamic IP** (default) or **Static IP** if your ISP provided you with the IP address, subnet mask, and DNS server addresses.

#### **IP Address**

Enter the IP address provided by your ISP. This field is available only when **Access Mode** is set to **Static IP**.

#### Subnet Mask

Enter the subnet mask provided by your ISP. This field is available only when **Access Mode** is set to **Static IP**.

#### Gateway

Enter the gateway provided by your ISP. This field is available only when **Access Mode** is set to **Static IP**.

#### Server IP

Enter the server IP address provided by your ISP.

#### **L2TP Account**

Enter the L2TP account name provided by your ISP.

#### **L2TP Password**

Enter the L2TP password provided by your ISP. Then re-enter it into the next field.

# **Primary / Secondary DNS**

Enter the DNS server addresses provided by your ISP.

Connection Type	
Connection Type :	L2TP 💌
Address Mode :	⊙ Dynamic IP ○ Static IP
IP Address :	0.0.0.0
Subnet Mask :	255.255.255.0
Gateway :	0.0.0.0
Server IP :	D
L2TP Account :	D
L2TP Password :	
L2TP Verify Password :	
Primary DNS :	0.0.0.0
Secondary DNS :	0.0.0.0
Auto-reconnect :	⊙ Always-on ○ Connect-on Demand ○ Manual
Idle Time Out :	5 Minutes
MTU:	1400 ( bytes ) MTU default = 1400
MAC Address:	00 - 11 - 95 - c8 - 11 - d3
	Clone MAC Address

# Auto-reconnect

Select reconnect option: Always-on, Connect-on Demand, and Manual .

# **Idle Time Out**

Enter the time wherein the travel router will cut off the Internet connection after the specified period of inactivity (in minutes). This field is disabled when **Auto-reconnect** is **Always-on**.

# MTU

Adjust the MTU (Maximum Transmission Unit) for optimal performance with your ISP. The default value is 1400.

# **MAC Address**

Enter the MAC address of the computer that was last connected to a modem. To enter the MAC address of your current computer, click **Clone MAC Address**.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

# Wi-Fi Protected Setup (WPS) Settings

Wi-Fi Protected Setup (WPS) is an optional certification program from the Wi-Fi Alliance that is designed to ease the task of setting up and configuring security on a wireless network.

# Enable

Check the box to enable WPS function.

Status Displays WPS status: UnConfigured or Configured.

There are 2 methods used in WPS configuration:

- **Push Button:** If the client device has a WPS button.
- **PIN Number:** If the client device has a WPS PIN number.

# **Self-PIN Number**

Displays the default PIN number of the travel router.

# **Client PIN Number**

Enter the client's PIN number. This PIN number will be used to communicate with the travel router to connect to the network.

# **Start PIN**

Click this button to start WPS configuration process if the client device has a WPS

	DNET Wireless N Travel Router TEW-654TR
Wizard	Wi-Fi Protected Settings
Setup • Wireless	Enable: 🗸
• LAN • WAN	Status: UnConfigured O Configured PIN Settings
• <u>WPS</u> • Dynamic DNS	Self-PIN Number: 02060101
Advanced System	Push Button: Configuration:
Status	Authentication Encryption Key OPEN WEP 2994153900
Logout	Cancel Apply
	Copyright © 2009 TRENDnet. All Rights Reserved

PIN number.

#### **Push Button Configuration**

Click the **Start PBC** button to start WPS configuration process if the client device has a WPS button.

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

# **Dynamic DNS Settings**

Use the Dynamic DNS submenu to synchronize the dynamic DNS server with your current public IP address when you are online.

	DNET	Wireless N Travel Router TEW-654TR
Wizard	Dynamic DNS	
Setup • Wireless • LAN • WAN • WPS • Dynamic DNS Advanced System	Enable : Server Address : Host Name : User Name : Password :	
Status		
Logout	]	
		Copyright © 2009 TRENDnet. All Rights Reserved.

# Enable

Check the box to enable dynamic DNS function. If this box is unchecked, the fields below are all disabled.

#### **Server Address**

Select the server address from the list of available servers.

Host Name Enter the host name.

User Name Enter the user name.

Password Enter the password.

# 4.2.3 Advanced

The Advanced menu configurations greatly affect the operating performance of the travel router. This menu is intended for advanced users. It is recommended to retain the default settings. Do not change any of the configurations if you are unsure about it.

# **Access Control**

The Access Control menu allows you deny or only allow access to certain wireless clients by filtering their MAC addresses.

# Access Control

Select the type of access from the list:

- **Disable:** Disable access control.
- **Reject:** Deny the MAC addresses shown on the list to access the wireless network.
- Accept: Only allow the MAC addresses shown on the list to access the wireless network.

	DNET Wireless N Travel Route TEW-654TI
Wizard	Access Control
Setup	The device can be setup to deny or only allow access to wireless clients with the listed MAC addresses
Advanced	
<u>Access Control</u>	WIRELESS ACCESS SETTINGS
• IP Filter	Use the client's MAC Address to authorize network access through the device.
Parental Control	Access Control: Reject 🔽
<ul> <li>Virtual Server</li> </ul>	MAC Address: 00 . 1b . 77 . 67 . d2 . 95 Clear
<ul> <li>Special AP</li> </ul>	
• DMZ	Connected PCS: Computer Name V Clone
Firewall Settings	MAC FILTER LIST
<ul> <li>Advance Network</li> <li>Settings</li> </ul>	MIC Iddecon
Advance Wireless	00/1b/77/67/02/06
Settings	00.10.77.87.02.85
System	Cancel Apply
Status	
Logout	
	Copyright © 2009 TRENDnet. All Rights Reserve

# **MAC Address**

Displays the cloned MAC address. To clear the MAC address, click Clear.

# **Connected PCs**

Select the name of the connected client that you want to clone. Click **Clone** to clone its MAC address.

To grant or block access:

- 1 Select the client from the **Connected PCs** list, then click **Clone**. The cloned MAC address is displayed in the **MAC Address** field.
- 2 Click Apply to add MAC address in the MAC Filter List. The system will reboot.
- 3 After rebooting, select the Access Control option: Disable, Reject or Accept.
- 4 Click **Apply** to save setting. The system will reboot for changes to take effect.
- **5** To add more MAC addresses, repeat steps 1-4.

To edit the access control of a MAC address, click its corresponding 📝 icon.

To delete the MAC address from the list, click its corresponding 🧃 icon.

# **IP** Filter

The IP Filter menu allows you to restrict a range of IP adresses to access the Internet.

	DNET		۷	Vireless N Tra	vel Route TEW-6541
Wizard	IP Filter Rules				
Setup Advanced	Entries in this table are u Internet through the Gate network.	ised to restrict o way. Use of su	ertain types of dat ch filters can be he	a packets from your local Ipful in securing or restric	network to ting your local
Access Control	Ena	ble : 🗹			
Parental Control	Na	me: Filter-1			
<ul> <li>Virtual Server</li> </ul>	Proto	col: TCP	*		
Special AP	P	ort :	-		
• DM2 • Firewall Settings	IP Rai	nge :	-		
<ul> <li>Advance Network Settings</li> </ul>	IP Filter List				
Advance Wireless     Settings	Name	Protocol	Port Range	IP Range	Edit Del
	Filter FTP	Any	20 ~ 21	0.0.0.0 ~ 0.0.0.0	📝 🧻
System	Filter HTTP	Any	80 ~ 80	$0.0.0.0 \sim 0.0.0.0$	📝 🧻
Status	Filter HTTPS	Any	443 ~ 443	0.0.0.0 ~ 0.0.0.0	📝 🧻
	Filter DNS	Any	53~53	$0.0.0.0 \sim 0.0.0.0$	📝 🧻
Logout	Filter SMTP	Any	25 ~ 25	$0.0.0.0 \sim 0.0.0.0$	📝 🧻
	Filter POP3	Any	110~110	0.0.0.0 ~ 0.0.0.0	📝 🧻
	🗌 Filter Telnet	Any	23 ~ 23	$0.0.0.0 \sim 0.0.0.0$	📝 🏢
				Cancel	Apply

# Enable

Check the box to enable filter. Uncheck to disable filter.

# Name

Create a filter name.

# Protocol

Select the type of protocol to use: TCP, UDP, or \* (any).

# Port

Enter the port range of the protocol.

# **IP Range**

Enter the starting and ending IP addresses which are not allowed to access the Internet.

# **IP Filter List**

Displays the list of filter profiles. By default, a number of profiles have been created and are all disabled. A checkmark before the filter name indicates that the profile is enabled.

To edit a profile, click the corresponding  $\boxed{2}$  icon. To delete a profile, click the correspond  $\boxed{1}$  icon.

# **Parental Control**

The Parental Control menu allows you to restrict or only allow computers from accessing specific websites.

	DNET	Wireless N Travel Router TEW-654TR
Wizard	Website Filtering Rule	
Setup	URL filter is used to deny LAN users from ac	ccessing the internet. Block those URLs which contain
Advanced	keywords listed below.	
Access Control	Configure Website Filtering below	
• IP Filter	Turn Website Filtering OFF	▼
<ul> <li>Parental Control</li> </ul>		
<ul> <li>Virtual Server</li> </ul>	Website ORL Address of keyword	
Special AP		
DMZ     Eirewall Sattings	Web Filter List	
Advance Network     Settings	URL	Edit Del
Advance Wireless Settings		Cancel 🗸 Apply
System		
Status		
Logout		
		Copyright © 2009 TRENDnet. All Rights Reserve

To configure website filtering, do the following:

- 1 Select the type of filter from the list:
  - **Turn Website Filtering OFF**: All website can be accessed by the computers on the network.
  - Turn Website Filtering ON and ALLOW computers access to ONLY these sites: Computers can only access the website or website with the keywords specified on the Website URL Address or keyword box.
  - Turn Website Filtering ON and DENY computers access to ONLY these sites: Computer cannot access the website or website with the keywords specified on the Website URL Address or keyword box.
- 2 Enter the URL Address or keywords to set filter on the **Website URL Address** or keyword box.

# Website Filter List

Displays the list of filter profiles.

To edit a filter profile, click the corresponding  $\square$  icon. To delete a filter profile, click the correspond  $\parallel$  icon.

# **Virtual Server**

The Virtual Server menu allows you to configure the travel router as a virtual server. Remote users accessing the Web or FTP services through the WAN can be automatically redirected to local servers in the LAN.

# Enable

Check the box to enable virtual server. Uncheck to disable.

# Name

Create a virtual server name.

#### Protocol

Select the type of protocol to use: **TCP**, **UDP**, or **Both**.

#### **Private Port**

Enter the port number of the being used as a virtual server.

# **Public Port**

Enter the port number of the of the WAN that will be used to provide access to the virtual server.

	JUE I.	Wire	eless N Trav	el Route IEW-654T
Wizard	Virtual Server			
Setup Advanced	This screen enables you to cre- remote users requesting Web ( LAN. The router redirects the re	ate a virtual server via the router. or FTP services through the WAN quest via the protocol and port n	If the router is set as I are directed to local umbers to the correct	a virtual server servers in the LAN server.
Access Control	Enable :			
P Filter     Parental Control	Name :	Virtual Server FTP		
<u>Virtual Server</u>	Protocol :	TCP V		
<ul> <li>Special AP</li> </ul>	Private Port :	21		
DMZ     Firewall Settings	Dublic Dort	01		
Advance Network	Public Port:	21		
Settings	LAN Server :	0.0.0.0		
Settings	Virtual Server List			
System	Name	Protocol	LAN Server	Edit Del
	Virtual Server FTP	TCP 21/21	0.0.0.0	🕑 📋
Status	Virtual Server HTTP	TCP 80/80	0.0.0.0	📝 🧻
Logout	Virtual Server HTTPS	TCP 443/443	0.0.0.0	📝 🧻
	Virtual Server DNS	UDP 53/53	0.0.0.0	📝 🧻
	Virtual Server SMTP	TCP 25/25	0.0.0.0	📝 🧻
	Virtual Server POP3	TCP 110/110	0.0.0.0	📝 🧻
	Virtual Server Telnet	TCP 23/23	0.0.0.0	📝 🧻
	IPSec	UDP 500/500	0.0.0.0	📝 🧻
	PPTP	TCP 1723/1723	0.0.0.0	D 🏢
	NetMeeting	TCP 1720/1720	0.0.0.0	📝 🧻
			Cancel	Apply

# **LAN Server**

Enter the LAN IP address that will be assigned to the virtual server.

# **Virtual Server List**

Displays the list of virtual server profiles. By default, a number of profiles have been created and are all disabled. A checkmark before the virtual server name indicates that the profile is enabled.

To edit a profile, click the corresponding  $\square$  icon. To delete a profile, click the correspond  $\square$  icon.

# **Special AP**

Some applications such as Internet games, video conferences, and others, require multiple connections that are usually blocked by NAT (Network Address Translation). The Special AP menu allows you to configure special applications that will connect via the travel router's WAN connection.

# Enable

Check the box to enable special AP function. Uncheck to disable.

# Name

Create a special AP name.

# Trigger

Defines whether the user has access to the application.

- Protocol: Select the protocol to access the application: TCP, UDP, or \* (any).
- **Port Range:** Enter the port range that can access the application.

IREND	NET		Wireless N Trave	Route
·d	Special AP	_		
·	This screen enables yo	u to specify sp	ecial applications.	
ced	En	able:		
rol	N	ame :		
ntrol	Tri	gger: Proto		
r		Port F	ange	
	Incor	ning: Proto		
ttings etwork		Port		
fireless	Special AP List			
	Name Tri	gger Port Ran	ge Incoming Port	Edit Del
	Battle.net An	y 6112 ~ 6112	Any 6112	📝 🧻
	Dialpad An	y 7175 ~ 7175	Any 51200-51201,51210	📝 📋
	🗌 ICU II 🛛 An	y 2019 ~ 2019	Any 2000-2038,2025-2051,2069,2085,3010- 3030	🕑 🎁
	PC-to- An Phone	y 12053 ~ 120	53 Any 12120,12122,24150-24220	1
	□ Quick Time An	y 554 ~ 554	Any 6970-6999	🖻 🧃
			Cancel	Apply
			Copyright © 2009 TRENDnet. All R	ights Reser

# Incoming

Defines the incoming

communication that users are permitted to connect with.

- Protocol: Select the protocol for incoming communication: TCP, UDP, or \* (any).
- **Port Range:** Enter the port range for incoming communication.

# **Special AP List**

Displays the list of special AP profiles. By default, a number of profiles have been created and are all disabled. A checkmark before the special AP name indicates that the profile is enabled.

To edit a profile, click the corresponding  $\square$  icon. To delete a profile, click the correspond  $\parallel$  icon.

# DMZ

The DMZ (Demilitarized Zone) menu allows you to create a DMZ for computers that cannot access Internet applications properly and have security settings. All access will be redirected to the DMZ host.

	DNET	Wireless N Travel Router TEW-654TR
Wizard	DMZ	
Setup	Enable DMZ ·	
Advanced	DMZ Host IP :	0.0.0.0 << Computer Name >
Access Control     IP Filter		Cancel O Apply
<ul> <li>Parental Control</li> <li>Virtual Server</li> </ul>		
<ul> <li>Special AP</li> <li><u>DMZ</u></li> </ul>		
<ul> <li>Firewall Settings</li> <li>Advance Network</li> </ul>		
Settings • Advance Wireless Settings		
System		
Status		
Logout		
		Copyright © 2009 TRENDnet. All Rights Reserved.

# Enable

Check the box to enable DMZ function. Uncheck to disable.

# **DMZ Host IP**

The host IP address to act as a DMZ host with unlimited Internet access. You can either type an IP address or generate it from a list of computers.

To generate the IP address:

- 1 Select the computer name from the list.
- 2 Click the << button. The computer's IP address is shown on the DMZ Host IP box.</p>

Once configuration is complete, click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

# Note:

Any clients added to the DMZ exposes the clients to security risks such as viruses and unauthorized access.

# **Firewall Settings**

A firewall protects your network from outsiders or unauthorized users or other networks.



# **UDP / TCP Endpoint Filtering**

Select any of the following options:

- Endpoint Independent: Once a LAN application has created a connection through a specific port, all incoming traffic will be forwarded to the same port. There is a risk in security.
- Address Restricted: Incoming traffic will be forwarded to the same IP address of the outgoing connection. This provides better security than endpoint independent.
- **Port and Address Restricted:** Incoming traffic is sourced from the IP address you originally connected to, and that it is replying from the same port that you connected to. This provides the best security.

# **Advanced Network Settings**



# UPNP

Check the **Enable UPnP** box to use UPnP (Universal Plug and Play) feature. UPnP supports peer-to-peer functionality for network devices.

# **WAN Ping**

Check the **Enable WAN Ping Respond** box to allow the travel router to respond to ping requests from the Internet.

# **Remote Management**

This feature allows you to configure the travel router from the Internet by a web browser.

# **Enable Remote Management**

Check the box to enable remote management. Uncheck to disable.

# Port

The port number used for web configuration.

# **Remote IP Range**

Enter the starting and ending IP addresses to allow remote management.

# **Advanced Wireless Network Settings**



# **Beacon Period**

Enter the interval period of time for the access point to send out beacons to synchronize the wireless network. The default value is 100 milliseconds.

# **RTS Threshold**

The default and the recommended value is 2346. Should you encounter inconsistent data flow, only minor adjustments should be made.

# **Fragmentation Threshold**

Fragmentation threshold refers to the amount of packets that will be fragmented before transmission. The default and recommended value is 2346 bytes.

# **DTIM Interval**

This value indicates the interval of Delivery Traffic Indication Message (DTIM). A DTIM is a countdown field informing clients of the next window for listening to broadcast and multicast messages. The default value is 1.

# **Preamble Type**

Preamble is use to limit the packets of data for transmission. When the connection is bad, it is recommended to use the **Short Preamble**.

# **Enable IGMP Snooping**

Check the box to enable Internet Group Management Protocol (IGMP) snooping. This function restrains multicast traffic in a switched network.

Wireless N Travel Route

# 4.2.4 System

# Admin

The Admin submenu allows you to change the administrator (Admin) user name and password, as well as setup another User account.

# Administrator

The administrator has overall rights to view and edit the web configurations. The default user name and password are "admin".

# User

The user can only view the web configurations but cannot edit them.

New User Name Enter the new user name.

# New / Confirm Password

Enter the password.

Account Settings		
Doceword		
Admin		
New User Name :	admin	
New Password :	••••	
Confirm Password :	••••	
User		
New User Name :	user	
New Password :		
Confirm Password :		
		Cancel Apply
	Password Admin New User Name : New Password : Confirm Password : User New User Name : New Password : Confirm Password :	Password Admin New User Name: admin New Password: 00000 Confirm Password: 00000 User New User Name: user New Password: 00000 Confirm Password: 00000

Click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

# Settings

The Settings submenu provides backup and restore setting functions.

# Save Settings to Local Hard Drive

Use this function to save the current configuration settings to your local hard drive. Click **Save**,

Save and Restore	
Save Settings To Local Hard Drive :	Save
Load Settings From Local Hard Drive :	Browse Upload Settings
Restore To Factory Default Settings :	Restore Device
Restart Device :	Restart

then select the folder where you want to save the file.

# Load Settings From Local Hard Drive

Use this function to retrieve saved configuration settings from the local hard drive.

- 1 Click **Browse** to locate the file.
- 2 Click **Upload Settings** to transfer and apply the settings to the travel router.

# **Restore to Factory Default Settings**

Click **Restore Device** to restore all configurations to the factory default settings. All changes in configuration will be deleted.

# **Restart Device**

Click **Restart** to reboot the travel router.

# Firmware

The Firmware submenu allows you to upgrade the firmware to the latest version.

**Current Firmware Version** 

Displays the current firmware version.

# **Firmware Date**

Displays the date when the firmware was last updated.

Current Firmware	Current Firmware info			
Current Firmware Version :	1.00.14			
Firmware Date :	Tue, 05 May 2009			
	Browse			
	Cancel 📿 Apply			

- 1 Download the latest firmware from the manufacturer's website, and save it to a disk.
- 2 Click Browse to locate the file.
- 3 Click **Apply** to start firmware update. The system will reboot to complete update.

# Time

The Time submenu allows you to manually adjust the system time settings or synchronize it with a server.

# **Current Time**

Displays the current date and time settings.

# Time Zone

Select the time zone in your area.

# Synchronize the clock with Select:

- **Manual:** To manually adjust the date and time.
- Automatic: To synchronize date and time with the server.

# **Default NTP Server**

Enter the NTP server address to synchronize the date and time with.

# Set the Time

Use this option to manually set the date and time. This option is only available when **Synchronize the clock with** is set to **Automatic**.

# **Enable Daylight Saving**

Check the box to enable daylight saving time. Use the Start and End field boxes to specify the starting and ending dates.

Click **Apply** to save and apply settings, or click **Cancel** to cancel changes. The travel router will restart for new settings to take effect.

System Time Set	tings
Current Time :	Jan/01/2008 00:24:55
Time Zone :	(GMT-08:00) Pacific Time (US/Canada), Tijuana 💌
Synchronize the clock with :	Manual
Default NTP server :	
Set the time :	Year 2008 🕶 Month Jan 💌 Day 01 💌
	Hour 00 🕶 Minute 00 🕶 second 00 👻 Set Time
Enable Daylight Saving :	
	Start Mar 💙 3rd 💙 Sun 💙
	End Nov 😪 2nd 😪 Sun 👻
	Cancel Cancel

# **Ping Test**

Enter the host name or the IP address on the box, then click **Ping** to check the status of the connection and determine whether the specified host name or IP address is present on the Internet.

Ping Test			
Host Name or IP address :	Ping		

# 4.2.5 Status

The Status menu displays device, logs, traffic, and connection information.

# **Device Info**

This page displays the Firmware Version, WAN, Wireless LAN and LAN information.

	DNET	Wireless N Travel Route TEW-654T
Wizard	Device Info	
Setup	-	
Advanced	Firmware Firmware	1 00 14
atom	router up time :	0 Day, 00:03:23
Arcin	WAN	
atus	MAC Address:	00:40:f4:03:24:bb
<u>vice Info</u>	Connection :	DHCP client Connected
gs atistics		DHCP Renew DHCP Release
reless	IP Address:	10.0.200.8
	Subnet Mask :	255.255.0.0
	Default Gateway :	10.0.254
	DNS :	10.0.200.1 10.0.0.250 10.0.0.251
	Wireless LAN	
	Connection :	Enable
	Network Name ( SSID ) :	TRENDnet654
	Channel :	6
	Security Type :	WEP_OPEN_64
	LAN	
	MAC Address:	00:40:f4:03:24:ba
	IP Address:	192.168.10.1
	Subnet Mask :	255.255.255.0
	DHCP Server :	Enable DHCP Table
		Copyright © 2009 TRENDnet. All Rights Reserv

# **DHCP Renew**

Click to reassign IP addresses to client stations connected to the WAN via the travel router.

# **DHCP Release**

Click to release all IP addresses assigned to client stations connected to the WAN via the travel router.

# **DHCP Table**

Click to view DHCP list.\*\*\*\*

# Logs

This page displays the recorded events that occur within the wireless network.

Click the following buttons to view the **First Page**, **Last Page**, **Previous Page**, and **Next Page**.

To delete log data, click Clear Log.

To change log settings, click **Log Settings**.

To refresh list, click Refresh.

View Log			
/iew Log displays the activities occurring on the device.			
Log Files : First Page L Clear Log I Page 6 of 7	Last Page Previous Page Next Page Log Settings Refresh		
Time	Message		
Jan 1 00:00:03	Sending discover		
Jan 1 00:00:01	Sending discover		
Jan 1 00:00:01	read /etc/hosts - 1 addresses		
Jan 1 00:00:01	compile time options: no-IPv6 GNU-getopt no-ISC-leasefile no-DBus no- I18N no-TFTP		
Jan 1 00:00:01	started, version 2.41 cachesize 150		
Jan 1 00:00:01	Sending discover		
Jan 1 00:00:00	device_lan_ip=192.168.10.1 , device_lan_subnet_mask=255.255.255.0		
Jan 1 00:00:00	DHCP server start.		
Jan 1 00:00:00	DHCP client start.		
Jan 1 00:00:00	0x00140000-0x01000000 : "RootFS"		

Traffic Statistics				
Traffic Statistics display Receive and Transmit packets passing through the device.				
	Receive	Transmit		
WAN	2372 Packets	57 Packets		
LAN	1398 Packets	1904 Packets		
Wireless	2736 Packets	2022 Packets		
Refresh Rese	at			

# passed through the travel router.

**Statistics** 

Click **Refresh** to refresh table.

# Wireless

This page displays the information of connected wireless clients such as the time of connection and their MAC addresses.

This page displays the traffic statistics of received and transmitted packets that

# Connected Wireless Client List Connected Time MAC Address 00:05:50 00:11:95:C8:11:D3 00:05:50 00:18:77:67:D2:95

# Appendix A: Regulatory & Safety Information

# Wireless LAN, Health and Authorization

Radio frequency electromagnetic energy is emitted from Wireless LAN devices. The energy levels of these emissions however are far much less than the electromagnetic energy emissions from wireless devices like for example mobile phones. Wireless LAN devices are safe for use frequency safety standards and recommendations. The use of Wireless LAN devices may be restricted in some situations or environments for example:

- · Onboard airplanes, or
- In an explosive environment, or
- In case the interference risk to other devices or services is perceived or identified as harmful

In case the policy regarding the use of Wireless LAN devices in specific organizations or environments (e.g. airports, hospitals, chemical/oil/gas industrial plants, private buildings etc.) is not clear, please ask for authorization to use these devices prior to operating the equipment.

# Disclaimers

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The Manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, of the substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

# FCC (Federal Communications Commission) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 This device may not cause interference, and
- 2 This device must accept any interference, including interference that may cause undesired operation of this device.

# **IMPORTANT NOTE:**

# FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.



# **Europe - EU Declaration of Conformity**

This device complies with the essential requirements of the R&TTE Directive 1999/5/ EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

# EN60950-1: 2006

Safety of Information Technology Equipment

# EN 50385: 2002

Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110MHz - 40 GHz) - General public

# EN 300 328 V1.7.1 (2006-10)

Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

# EN 301 489-1 V1.8.1 (2008-04)

Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

# EN 301 489-17 V1.3.2 (2008-04)

Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/ or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.

# €0560

# APPENDIX

Česky [Czech]	TRENDnet tímto prohlašuje, že tento TEW-654TR je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
da Dansk [Danish]	Undertegnede TRENDnet erklærer herved, at følgende udstyr TEW-654TR overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
de Deutsch [German]	Hiermit erklärt TRENDnet, dass sich das Gerät TEW-654TR in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
et Eesti [Estonian]	Käesolevaga kinnitab TRENDnet seadme TEW-654TR vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
en English	Hereby, TRENDnet, declares that this TEW-654TR is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
es Español [Spanish]	Por medio de la presente TRENDnet declara que el TEW-654TR cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
el Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ TRENDnet ΔΗΛΩΝΕΙ ΟΤΙ ΤΕW-654TR ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
fr Français [French]	Par la présente TRENDnet déclare que l'appareil TEW-654TR est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
it Italiano [Italian]	Con la presente TRENDnet dichiara che questo TEW-654TR è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo TRENDnet deklarē, ka TEW-654TR atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo TRENDnet deklaruoja, kad šis TEW-654TR atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
nl Nederlands [Dutch]	Hierbij verklaart TRENDnet dat het toestel TEW-654TR in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
Malti [Maltese]	Hawnhekk, TRENDnet, jiddikjara li dan TEW-654TR jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
hu <sub>Magyar</sub> [Hungarian]	Alulírott, TRENDnet nyilatkozom, hogy a TEW-654TR megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
Polski [Polish]	Niniejszym TRENDnet oświadcza, że TEW-654TR jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
pt Português [Portuguese]	TRENDnet declara que este TEW-654TR está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
sl Slovensko [Slovenian]	TRENDnet izjavlja, da je ta TEW-654TR v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	TRENDnet týmto vyhlasuje, že TEW-654TR spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
fi Suomi [Finnish]	TRENDnet vakuuttaa täten että TEW-654TR tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska [Swedish]	Härmed intygar TRENDnet att denna TEW-654TR står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

#### NCC 警語:

經型式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。前項合法通信,指依電信法規定作業之無線電通信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

# Appendix B: Specifications

Hardware		
Interface	1x 10/100Mbps Auto-MDIX port	
Standards	IEEE 802.11b, IEEE 802.11g, IEEE 802.11n (draft 2.0) IEEE 802.3/IEEE 802.3u Fast Ethernet IEEE 802.3x Flow Control	
Supported Protocol	TCP/IP, NAT, PPPoE/PPTP/L2TP, HTTP, DHCP Server/Client	
LED Indicator	Power LAN: Link, ACT WLAN: ACT	
Power Consumption	2.5 watts (max)	
Power Adapter	5V, 1.2A or power via the included USB cable from PC	
Dimensions (LxWxH)	60 x 80 x 18.5mm (2.4 x 3.2 x 0.7in)	
Weight	50g (1.6oz)	
Temperature	Operating: 0° ~ 40° C (32° ~ 104° F) Storage: -10° ~ 70° C (14° ~ 158° F)	
Humidity	10% ~ 90% max (non-condensing)	
Certification	FCC, CE	
Wireless		
Module Technique	DBPSK/DQPSK/CCK/OFDM (BPSK/QPSK/16-QAM/64-QAM)	
Antenna	2 on-board antennas	
Frequency	2.412 ~ 2.484 GHz	
Data Rate	802.11b: 11Mbps, 5.5Mbps, 2Mbps, and 1Mbps 802.11g: 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps,12Mbps,	
(auto fallback)	9Mbps, and 6Mbps 802.11n: up to 300Mbps	
(auto fallback) Output Power	9Mbps, and 6Mbps 802.11n: up to 300Mbps 802.11b: 14dBm (typical) 802.11g: 14dBm (typical) 802.11n: 12dBm (typical)	
(auto fallback) Output Power Receiving Sensitivity	9Mbps, and 6Mbps 802.11n: up to 300Mbps 802.11b: 14dBm (typical) 802.11g: 14dBm (typical) 802.11n: 12dBm (typical) 802.11b: -85dBm (typical) at 11Mbps 802.11g: -68dBm (typical) at 54Mbps 802.11n: -59dBm at 135Mbps	
(auto fallback) Output Power Receiving Sensitivity Security	9Mbps, and 6Mbps 802.11n: up to 300Mbps 802.11b: 14dBm (typical) 802.11g: 14dBm (typical) 802.11n: 12dBm (typical) 802.11b: -85dBm (typical) at 11Mbps 802.11g: -68dBm (typical) at 54Mbps 802.11g: -68dBm (typical) at 54Mbps 802.11n: -59dBm at 135Mbps 64/128-bit WEP (Hex & ASCII), WPA/WPA2-Radius (802.1x), WPA-PSK/WPA2-PSK MAC address, IP and URL filtering	

# Appendix C: Limited Warranty

TRENDnet warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

# TEW-654TR - 3 Years Warranty

AC/DC Power Adapter, Cooling Fan, and Power Supply carry 1 year warranty.

If a product does not operate as warranted during the applicable warranty period, TRENDnet shall reserve the right, at its expense, to repair or replace the defective product or part and deliver an equivalent product or part to the customer. The repair/ replacement unit's warranty continues from the original date of purchase. All products that are replaced become the property of TRENDnet. Replacement products may be new or reconditioned. TRENDnet does not issue refunds or credit. Please contact the point-of-purchase for their return policies.

TRENDnet shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product by any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual.

Warranty service may be obtained by contacting TRENDnet within the applicable warranty period and providing a copy of the dated proof of the purchase. Upon proper submission of required documentation a Return Material Authorization (RMA) number will be issued. An RMA number is required in order to initiate warranty service support for all TRENDnet products. Products that are sent to TRENDnet for RMA service must have the RMA number marked on the outside of return packages and sent to TRENDnet prepaid, insured and packaged appropriately for safe shipment. Customers shipping from outside of the USA and Canada are responsible for return shipping fees. Customers shipping from outside of the USA are responsible for custom charges, including but not limited to, duty, tax, and other fees.

WARRANTIES EXCLUSIVE: IF THE TRENDNET PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE, THE CUSTOMER'S SOLE REMEDY SHALL BE, AT TRENDNET'S OPTION, REPAIR OR REPLACE. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. TRENDNET NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION MAINTENANCE OR USE OF TRENDNET'S PRODUCTS.

TRENDNET SHALL NOT BE LIABLE UNDER THIS WARRANTY IF ITS TESTING AND EXAMINATION DISCLOSE THAT THE ALLEGED DEFECT IN THE PRODUCT DOES NOT EXIST OR WAS CAUSED BY CUSTOMER'S OR ANY THIRD PERSON'S MISUSE, NEGLECT, IMPROPER INSTALLATION OR TESTING, UNAUTHORIZED ATTEMPTS TO REPAIR OR MODIFY, OR ANY OTHER CAUSE BEYOND THE RANGE OF THE INTENDED USE, OR BY ACCIDENT, FIRE, LIGHTNING, OR OTHER HAZARD.

LIMITATION OF LIABILITY: TO THE FULL EXTENT ALLOWED BY LAW TRENDNET ALSO EXCLUDES FOR ITSELF AND ITS SUPPLIERS ANY LIABILITY, WHETHER BASED IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY KIND, OR FOR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATE, OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE, OR INTERRUPTION OF THE POSSIBILITY OF SUCH DAMAGES, AND LIMITS ITS LIABILITY TO REPAIR, REPLACEMENT, OR REFUND OF THE PURCHASE PRICE PAID, AT TRENDNET'S OPTION. THIS DISCLAIMER OF LIABILITY FOR DAMAGES WILL NOT BE AFFECTED IF ANY REMEDY PROVIDED HEREIN SHALL FAIL OF ITS ESSENTIAL PURPOSE.

**Governing Law:** This Limited Warranty shall be governed by the laws of the state of California.

Some TRENDnet products include software code written by third party developers. These codes are subject to the GNU General Public License ("GPL") or GNU Lesser General Public License ("LGPL").

Go to http://www.trendnet.com/gpl or http://www.trendnet.com Download section and look for the desired TRENDnet product to access to the GPL Code or LGPL Code. These codes are distributed WITHOUT WARRANTY and are subject to the copyrights of the developers. TRENDnet does not provide technical support for these codes. Please go to http://www.gnu.org/licenses/gpl.txt or http://www.gnu.org/ licenses/lgpl.txt for specific terms of each license.

PWP05202009v2



# **Product Warranty Registration**

Please take a moment to register your product online. Go to TRENDnet's website at http://www.trendnet.com/register

**TRENDNET** 20675 Manhattan Place Torrance, CA 90501 USA

Copyright ©2009. All Rights Reserved. TRENDnet.